VOLUME 48

LIST OF CONTENTS

Number 1

THE POSTDAM INTERNATIONAL CONSULTATION ON META-ANALYSIS

Walter O. Spitzer	V	Editor's Note
Walter O. Spitzer	1	Editor's Keynote Address: The challenge of meta-analysis
Norbert Victor	5	"The challenge of meta-analysis": discussion. Indications and contra-indications for meta-analysis
Robert E. Slavin	9	Best evidence synthesis: an intelligent alternative to meta-analysis
H. Letzel	19	"Best-evidence-synthesis: an intelligent alternative to meta-analysis": discussion. A case of "either–or" or "as well"
Richard Peto, Rory Collins and **Richard Gray**	23	Large-scale randomized evidence: large, simple trials and overviews of trials
Ralph I. Horwitz	41	"Large-scale randomized evidence: large, simple trials and overviews of trials": discussion. A clinician's perspective on meta-analysis
Joseph Lau, Christopher H. Schmid and **Thomas C. Chalmers**	45	Cumulative meta-analysis of clinical trials builds evidence for exemplary medical care
Deborah Cook	59	"Cumulative meta analysis of clinical trials builds evidence for exemplary medical care": discussion
David L. Sackett	61	Applying overviews and meta-analyses at the bedside
Iain Chalmers	67	"Applying overviews and meta-analyses at the bedside": discussion
Alvan R. Feinstein	71	Meta-analysis: statistical alchemy for the 21st century
Alessandro Liberati	81	"Meta-analysis: statistical alchemy for the 21st century": discussion. A plea for a more balanced view of meta-analysis and systematic overviews of the effect of health care interventions
David J. Finney	87	A statistician looks at met-analysis
Les Irwig	105	"A statistician looks at met-analysis": discussion
Charles Anello and **Joseph L. Fleiss**	109	Exploratory or analytic meta-analysis: should we distinguish between them?
Irene Guggenmoos-Holzmann	117	"Exploratory or analytic meta-analysis: should we distinguish between them": discussion
Les Irwig, Petra Macaskill, Paul Glasziou and **Michael Fahey**	119	Meta-analytic methods for diagnostic test accuracy
David L. Sackett	131	"Meta-analytic methods for diagnostic test accuracy": discussion
Ingram Olkin	133	Statistical and theoretical considerations in meta-analysis
Joseph L. Fleiss	147	"Statistical and theoretical considerations in meta-analysis": discussion

John C. Bailar III 149 The practice of meta-analysis

Geneviève Grégoire, Françoise Derderian and **Jacques Le Lorier** 159 Selecting the language of the publications included in a meta-analysis: is there a Tower of Babel bias?

Valerie Beral 165 "The practice of meta-analysis": discussion. Meta-analysis of observational studies: a case study of work in progress

D. J. Cook, D. L. Sackett and **W. O. Spitzer** 167 Methodologic guidelines for systematic reviews of randomized control trials in health care from the Postdam Consultation on Meta-Analysis

Number 2

Commentary

Philip H. Abelson 173 Exaggerated risks of chemicals

Original Articles

Gary E. Rosenthal, Edward J. Halloran, Marylou Kiley, C. Seth Landefeld and **The Nurses of University Hospitals of Cleveland** 179 Predictive validity of the Nursing Severity Index in patients with musculoskeletal disease

Paolo Vineis and **Paul A. Schulte** 189 Scientific and ethical aspects of genetic screening of workers for cancer risk: the case of the *N*-acctyltransferase phenotype

Paula Rantakallio, Esa Läärä, Markku Koiranen and **Ari Sarpola** 199 Maternal build and pregnancy outcome

Sybil L. Crawford, Sharon L. Tennstedt and **John B. McKinlay** 209 A comparison of analytic methods for non-random missingness of outcome data

Kimmo V. K. Porkka and **Jorma S. A. Viikari** 221 Tracking of scrum lipids in children: association with the absolute lipid level—The Cardiovascular Risk in Young Finns Study

Sharon-Lise T. Normand, Carl N. Morris, Karen S. Fung, Barbara J. McNeil and **Arnold M. Epstein** 229 Development and validation of a claims based index for adjusting for risk of mortality: the case of acute myocardial infarction

E. Chouinard and **S. Walter** 245 Recall bias in case–control studies: an empirical analysis and theoretical framework

Annette M. O'Connor and **Ross A. Pennie** 255 Reliability and validity of measures used to elicit health expectations, values, tradeoffs and intentions to be immunized for hepatitis B

Ian R. White, Eric J. Brunner and **Jeffrey L. Barron** 263 A comparison of overnight and 24 hour collection to measure urinary catecholamines

Walter F. Stewart, David Simon, Aaron Shecter and **Richard B. Lipton** 269 Population variation in migraine prevalence: a meta-analysis

Thomas M. Gill and **Ralph I. Horwitz** 281 Evaluating the efficacy of cancer screening: clinical distinctions and case-control studies

Letters to the Editors

H. Kesteloot and **J. V. Joossens** 293 The quality of epidemiological data on coronary heart disease

W. E. Stehbens 293 Response

PHARMACOEPIDEMIOLOGY REPORTS

Susan Todd, Mark Woodward, Caroline Bolton-Smith and **Hugh Tunstall-Pedoe** 297 An investigation of the relationship between antioxidant vitamin intake and coronary heart disease in men and women using discriminant analysis

Susan Todd, Mark Woodward and **Caroline Bolton-Smith** 307 An investigation of the relationship between antioxidant vitamin intake and coronary heart disease in men and women using logistic regression analysis

Corrigendum i

Number 3

Original Articles

Maritta S. Jaakkola, Jouni J. K. Jaakkola, Margaret R. Becklake and **Pierre Ernst** — 317 Passive smoking and evolution of lung function in young adults. An 8-year longitudinal study

Akira Okayama, Hirotsugu Ueshima, Michael G. Marmot, Paul Elliott, Masanobu Yamakawa and **Yoshikuni Kita** — 329 Different trends in serum cholesterol levels among rural and urban populations aged 40–59 in Japan from 1960 to 1990

Hogne Sandvik, Steinar Hunskaar, Anita Vanvik, Harald Bratt, Arnfinn Seim and **Ragnar Hermstad** — 339 Diagnostic classification of female urinary incontinence: an epidemiological survey corrected for validity

N. Scorpiglione, A. Nicolucci, R. Grilli, C. Angiolini, M. Belfiglio, F. Carinci, D. Cubasso, G. Filardo, D. Labbrozzi, F. Mainini, E. Mari, A. Penna, P. Zola and **A. Liberati (on behalf of Progetto Oncologia Femminile)** — 345 Appropriateness and variation of surgical treatment of breast cancer in Italy: when excellence in clinical research does not match with generalized good quality care

Richard F. Gillum, Michael E. Mussolino and **Diane M. Makuc** — 353 Erythrocyte sedimentation rate and contrary heart disease: the NHANES I Epidemiological Follow-up Study

Gregory Simon, Edward Wagner and **Michael Vonkorff** — 363 Cost-effectiveness comparisons using "real world" randomized trials: the case of new antidepressant drugs

Mark D. Grant, Zdzislaw H. Piotrowski and **Rick Chappell** — 375 Self-reported health and survival in the Longitudinal Study of Aging, 1984–1986

John P. Matts, Henry Buchwald, Laurie L. Fitch, Christian T. Campos, Richard L. Varco, Gilbert S. Campbell, Malcolm B. Pearce, Albert E. Yellin, Robert D. Smink Jr, Henry S. Sawin Jr and **John M. Long for the POSCH Group** — 389 Subgroup analysis of the major clinical endpoints in the Program on the Surgical Control of the Hyperlipidemias (POSCH): overall mortality, atherosclerotic coronary heart disease (ACHD) mortality, and ACHD mortality or myocardial infarction

Frank Jelles, Coen A. M. van Bennekom, Gustaaf J. Lankhorst, Catharina J. P. Sibbel and **Lex M. Bouter** — 407 Inter- and intra-rater agreement of the Rehabilitation Activities Profile

Yvonne T. van der Schouw, Roelof van Dijk and **Andre L. M. Verbeek** — 417 Problems in selecting the adequate patient population from existing data files for assessment studies of new diagnostic tests

David H. Kuykendall and **Michael L. Johnson** — 423 Administrative databases, case-mix adjustments and hospital resource use: the appropriateness of controlling patient characteristics

Special Communication

Yvonne Lis and **Ronald D. Mann** — 431 The VAMP Research multi-purpose database in the U.K.

PHARMACOEPIDEMIOLOGY REPORT

S. Lori Brown, Marcel E. Salive, Jack M. Guralnik, Marco Pahor, Daniel P. Chapman and **Dan Blazer** — 445 Antidepressant use in the elderly: association with demographic characteristics, health-related factors, and health care utilization

Number 4

Kari Poikolainen — 455 Alcohol and mortality: A review

Knud Juel and **Anette Sjøl** — 467 Decline in mortality from heart disease in Denmark: some methodological problems

Jeanne A. Teresi, Robert R. Golden, Peter Cross, Barry Gurland, Marjorie Kleinman and **David Wilder** — 473 Item bias in cognitive screening measures: comparisons of elderly white, Afro-American, Hispanic and high and low education subgroups

Alison J. Macarthur, Colin Macarthur and Joan C. Bevan 485 Determinants of pediatric day surgery cancellation

Brian L. Schwam, Jeffrey W. Kalenak, Stephanie J. Meyers and Kashyap B. Kansupada 491 Association between skin color and intraocular pressure in African Americans

Letters to the Editors

Matthew P. Longnecker 497 Alcohol and breast cancer

H. Daniel Roth and Paul S. Levy 498 Response

Warren Winkelstein Jr 500 Spontaneous abortion and coronary heart disease

PHARMACOEPIDEMIOLOGY REPORTS

Silicone Breast Implants and Long-term Health Effects

Walter O. Spitzer 503 Editor's Note: A special section on breast implants and the health of women

Ronald D. Mann 504 Guest Editorial: Breast implants: the tyranny of the anecdote

Steven H. Lamm 507 Silicone breast implants and long-term health effects: when are data adequate?

Robert R. LeVier, Myron C. Harrison, Ralph C. Cook and Thomas H. Lane 513 What is silicone?

Ralph R. Cook, Robert R. Delongchamp, MaryAnn Woodbury, Laura L. Perkins and Myron C. Harrison 519 The prevalence of women with breast implants in the United States—1989

Sherine E. Gabriel, W. Michael O'Fallon, C. Mary Beard, Leonard T. Kurland, John E. Woods and L. Joseph Melton, III 527 Trends in the utilization of silicone breat implants, 1964–1991, and methodology for a population-based study of outcomes

Arnold Engel, Steven H. Lamm and Shenghan H. Lai 539 Human breast sarcoma and human breast implantation: a time trend analysis based on SEER data (1973–1990)

Robert W. Morgan and Maryellen Elcock 545 Artificial implants and soft tissue sarcomas

Dennis M. Deapen and Garry S. Brody 551 Augmentation mammaplasty and breast cancer: a five-year update of the Los Angeles study

Louise A. Brinton, Paolo Toniolo and Bernard S. Pasternack 557 Epidemiologic follow-up studies of breast augmentation patients

Marc C. Hochberg, Robyn Miller and Fredrick M. Wigley 565 Frequency of augmentation mammoplasty in patients with systemic sclerosis: data from the Johns Hopkins—University of Maryland Scleroderma Center

John A. Goldman, Jesse Greenblatt, Ron Joines, Leslie White, Bruce Aylward and Steven H. Lamm 571 Breast implants, rheumatoid arthritis, and connective tissue diseases in a clinical practice

David Schottenfeld, Carol J. Burns, Brenda W. Gillespie, Timothy J. Laing, Maureen D. Mayes, Steven G. Heeringa and Kirsten H. Alcser 583 The design of a population-based case-control of systemic sclerosis (scleroderma): commentary on the University of Michigan study

Number 5

Variance and Dissent

Alan J. Gross 587 Presentation: The risk of lung cancer in nonsmokers in the United States and its reported association with environmental tobacco smoke

Flora E. van Leeuwen 599 Dissent: The risk of lung cancer in nonsmokers in the United States: a causal association with environmental tobacco smoke

Alan J. Gross 603 Response

Original Articles

David C. Hadorn and **John Uebersax** 607 Large-scale health outcomes evaluation: how should quality of life be measured? Part I—Calibration of a brief questionnaire and a search for preference subgroups

David C. Hadorn, Julie Sorensen and **Joyce Holte** 619 Large-scale health outcomes evaluation: how should quality of life be measured? Part II—Questionnaire validation in a cohort of patients with advanced cancer

Amy K. Rosen, Arlene S. Ash, Kathleen J. McNiff and **Mark A. Moskowitz** 631 The importance of severity of illness adjustment in predicting adverse outcomes in the Medicare population

Geir Egil Eide and **Olaf Gefeller** 645 Sequential and average attributable fractions as aids in the selection of preventive strategies

M. S. Durkin, W. Wang, P. E. Shrout, S. S. Zaman, Z. M. Hasan, P. Desai and **L. L. Davidson** 657 Evaluating a ten questions screen for childhood disability: reliability and internal structure in different cultures

Mary Lynne Reuss, Maureen C. Hatch and **Mervyn Susser** 667 Early ultrasound dating of pregnancy: selection and measurement biases

Antonio Ciampi, Abdissa Negassa and **Zihyi Lou** 675 Tree-structured prediction for censored survival data and the Cox model

PHARMACOEPIDEMIOLOGY REPORTS

Review

Danielle A. W. M. van der Windt, Geert J. M. G. van der Heijden, Rob J. P. M. Scholten, Bart W. Koes and **Lex M. Bouter** 691 The efficacy of non-steroidal anti-inflammatory drugs (NSAIDs) for shoulder complaints. A systematic review

Original Articles

Vinod K. Diwan, Rold Wahlström, Göran Tomson, Björn Beermann, Göran Sterky and **Bo Eriksson** 705 Effects of "group detailing" on the prescribing of lipid-lowering drugs: a randomized controlled trial in Swedish primary care

Uffe Ravnskov 713 Quotation bias in reviews of the diet–heart idea

Book Review 721

Number 6

Original Articles

Michael Kyriakidis, Panaghiotis Petropoulakis, Aristides Androulakis, Athanassios Antonopoulos, Theodoros Apostolopoulos, John Barberseas, Gregory Vyssoulis and **Pavlos Toutouzas** 723 Sex differences in the anatomy of coronary artery disease

R. T. Ross and **Mary Cheang** 731 Geographic similarities between varicella and multiple sclerosis: an hypothesis on the environmental factor of multiple sclerosis

Colin Macarthur, Priscilla J. Foran and **John C. Bailar III** 739 Qualitative assessment of studies included in a meta-analysis: DES and the risk of pregnancy loss

Mark Emberton, Andy Challands, Rosemary A. Styles, John A. K. Wightman and **Nick Black** 749 Recollected versus contemporary patient reports of preoperative symptoms in men undergoing transurethral prostatic resection for benign disease

E. Barasch, M. Benderly, E. Graff, S. Behar, H. Reicher-Reiss, A. Caspi, B. Pelled, L. Reisen, N. Roguin, U. Goldbourt and the **Principal Investigators of the BIP Study Group** 757 Plasma fibrinogen levels and their correlates in 6457 coronary heart disease patients. The Benzafibrate Infarction Prevention (BIP) study

Wilfred D. Stein and **Aryeh D. Stein** 767 Familial and sporadic human renal cell carcinoma: evidence against a double-loss mechanism of carcinogenesis

Carol A. Sawka, Kathleen I. Pritchard, H. Lavina A. Lickley, Gladys A. Oldfield, Judy-Anne W. Chapman, G. Geneitha Allen, Betty G. Mobbs, Wedad M. Hanna, Harriette Kahn, Maureen E. Trudeau and **David R. McCready** 779 The Henrietta Banting Breast Centre database: a model for clinical research utilizing a hospital-based inception cohort

Lothar Helvemann, Wolfgang Barth and **Hans Hoffmeister** 787 Trend of cardiovascular risk factors in the East German population 1968–1992

Thomas Köhler, Rainer Eisentraut and **Elsbeth Gracber** 797 Headache classification based on questionnaire data: which symptoms are especially suitable?

Mogens Groenvold, Jakob B. Bjorner, Marianne Carol Klee and **Svend Kreiner** 805 Test for items bias in a quality of life questionnaire

Jan Karlsson, Lars Sjöström and **Marianne Sullivan** 817 Swedish Obese Subjects (SOS)—an intervention study of obesity. Measuring psychosocial factors and health by means of short-form questionnaires. Results from a method study

Daniel S. Sitar, Göran Boëthius, Ulf Bergman and **Paul A. Mitenko** 825 Prescribing patterns for elderly community-dwelling heavy medicinal drug users in Manitoba, Canada and Jämtland, Sweden

Jacqueline M. Dekker, Evert G. Schouten, Daan Kromhout, Peter Klootwijk and **Jan Pool** 833 The Cardiac Infarction Injury Score and coronary heart disease in middle-aged and elderly men: the Zutphen Study

G. Reza Najem, Marian Rose Catherine Passannante and **James D. Foster** 841 Health risk factors and health promoting behavior of medical dental and nursing students

PHARMACOEPIDEMIOLOGY REPORT

L. E. Visser, B. H. Ch. Stricker, J. van der Velden, A. H. P. Paes and **A. Bakker** 851 Angiotensin converting enzyme inhibitor associated cough: a population-based case-control study

Number 7

Editorial

Alvan R. Feinstein III Farewell and Hail

Original Articles

Peter A. Grootenhuis, Susanne Westenbrink, Claudia M. T. L. Sie, J. Nico D. de Neeling, Frans J. Kok and **Lex M. Bouter** 859 A semiquantitative food frequency questionnaire for use in epidemiologic research among the elderly: validation by comparison with dietary history

Henrica C. W. de Vet, Johan Koudstaal, Wie-sien Kwee, Dirk Willebrand and **Jan Willem Arends** 869 Efforts to improve interobserver agreement in histopathological grading

Renaldo N. Battista, Matthew J. Hodge and **Paolo Vineis** 875 Medicine, practice and guidelines: the uneasy juncture of science and art

Risto Honkanen, Heikki Kröger, Marjo Tuppurainen, Esko Alhava and **Seppo Saarikoski** 881 Fractures and low axial bone density in perimenopausal women

J. D. Kark, O. Manor, S. Goldman and **E. M. Berry** 889 Stability of red blood cell membrane fatty acid composition after acute myocardial infarction

S. D. Walter, Alba Mitchell and Doris Southwell — 897 — Use of certainty of opinion data to enhance clinical decision making

Robert L. Hanson, David R. McCance, Lennart T. H. Jacobsson, K. M. V. Narayan, Robert G. Nelson, David J. Pettitt, Peter H. Bennett and William C. Knowler — 903 — The U-shaped association between body mass index and mortality: relationship with weight gain in a native American population

C. Melfi, E. Holleman, D. Arthur and B. Katz — 917 — Selecting a patient characteristics index for the prediction of medical outcomes using administrative claims data

Jing Ma, Aaron R. Folsom, Sandra L. Melnick, John H. Eckfeldt, A. Richey Sharrett, Azmi A. Nabulsi, Richard G. Hutchinson and Patricia A. Metcalf — 927 — Associations of serum and dietary magnesium with cardiovascular disease, hypertension diabetes, insulin, and carotid arterial wall thickness: the ARIC Study

Ivo Foppa, Horst Noack and Christoph E. Minder — 941 — The relation of reported symptoms to social, individual, and behavioral indicators of ill-health: is the number of reported symptoms a unique general dimension of ill-health?

Xavier Badia and Jordi Alonso — 949 — Re-scaling the Spanish version of the Sickness Impact Profile: an opportunity for the assessment of cross-cultural equivalence

D. Y. Wang, K. A. Stepniewska, D. S. Allen, I. S. Fentiman, R. D. Bulbrook, H. G. Kwa, B. L. De Stavola and M. J. Reed — 959 — Serum prolacting levels and their relationship to survival in women with operable breast cancer

Lauro Bucchi, Massimo Costantini, Gianfranco Buzzi, Patrizia Bravetti, Alessandra Cicognani, Mirella Torta, Carlo Naldoni, Luigi Dogliotti and Paolo Bruzzi — 969 — Wolfe's mammographic patterns in women with Gross Cystic Disease of the breast

Rosa Gofin, Tamar Hass and Bella Adler — 977 — The development of disability scales for childhood and adolescent injuries

Second Thoughts

Joseph Herman — 985 — The demise of the randomized controlled trial

Letters to the Editor

Hermann Brenner — 989 — Pitfalls in assessming the effect of time-varying covariates in cross-sectional studies

R. Meinert — 990 — Response

Number 8

Original Articles

M. C. J. M. Sturkenboom, A. Middelbeek, L. T. W. de Jong van den Berg, P. B. van den Berg, B. H. Ch. Stricker and H. Wesseling — 991 — Vulvo-vaginal candidiasis associated with acitretin

Robyn Tamblyn, Gilles Lavoie, Lina Petrella and Johanne Monette — 999 — The use of prescription claims databases in pharamcoepidemiological research: the accuracy and comprehensiveness of the prescription claims database in Québec

Eugene Oddone, Morris Weinberger, Anita Huder, William Henderson and David Simel — 1011 — Measuring activities in clinical trials using random work sampling: implications for cost-effectiveness analysis and measurement of the intervention

Priya J. Wickramaratne — 1019 — Selecting control groups for studies of familial aggregation of disease

Francisco Pérez Corral and Víctor Abraira — 1031 — Autoperception and satisfaction with health: two medical care markers in elderly hospitalized patients. Quality of life as an outcome estimate of clinical practice

Catherine A. Demko, Pamela J. Byard and Pamela B. Davis 1041 Gender differences in cystic fibrosis: *Pseudomonas aeruginosa* infection

Thomas V. Perneger, Alain Leplège, Jean-François Etter and André Rougemont 1051 Validation of a French-language version of the MOS 36-Item Short Form Health Survey (SF-36) in young healthy adults

Kirsten Rokstad, Jørund Straand and Per Fugelli 1061 Can drug treatment be improved by feedback on prescribing profiles combined with therapeutic recommendations? A prospective, controlled trial in general practice

Claudia A. Kozinetz, Martha L. Skender, Nancy L. MacNaughton, Deborah J. del Junco, Mary Jane Almes, Rebecca J. Schultz, Daniel G. Glaze and Alan K. Percy 1069 Population-based registries using multidisciplinary reporters: a method for the study of pediatric neurologic disorders

Marga C. Ocké, Jaap Schrijver, Gatske L. Obermann-de Boer, Bennie P. M. Bloemberg, Guido R. M. M. Haenen and Daan Kromhout 1077 Stability of blood (pro)vitamins during four years of storage at −20°C: consequences for epidemiologic research

Second Thoughts

Jack E. Riggs 1087 Competing mortality risks and differential survival

Michael A. Fischer and Alvan R. Feinstein 1089 The etymology and pathogenesis of "wonk"

Number 9

Original Articles

Marco Vinceti, Sergio Rovesti, Chiara Gabrielli, Cristina Marchesi, Margherita Bergomi Mariella Martini and Gianfranco Vivoli 1091 Cancer mortality in a residential cohort exposed to environmental selenium through drinking water

Judith Parsells Kelly, Ariane Auquier, Berthold Rzany, Luigi Naldi, Sylvie Bastuji-Garin, Osvaldo Correia, Samuel Shapiro and David W. Kaufman 1099 An international collaborative case-control study of severe cutaneous adverse rations (SCAR). Design and methods

Gregory E. Simon, Michael VonKorff, T. Bedirhan Ustun, Richard Gater, Oye Gureje and Norman Sartorius 1109 Is the lifetime risk of depression actually increasing?

Bjarne K. Jacobsen, Stein Emil Vollset and Gunnar Kvåle 1119 Do reproductive factors influence colorectal cancer survival?

Martin C. Tammemagi, John W. Frank, Michael Leblanc, Harvey Artsob and David L. Streiner 1123 Methodological issues in assessing reproducibility—a comparative study of various indices of reproducibility applied to repeat ELISA serologic tests for Lyme disease

Miguel Delgado-Rodríguez, Montserrat Gómez-Olmedo, Aurora Bueno-Cavanillas, Miguel García-Martín and Ramón Gálvez-Vargas 1133 Recall bias in a case-control study of low birth weight

Teri A. Manolio, Gregory L. Burke, Bruce M. Psaty, Anne B. Newman, Mary Haan, Neil Powe, Russell P. Tracy, and Daniel H. O'Leary (for the CHS Collaborative Research Group) 1141 Black–white differences in subclinical cardiovascular disease among older adults: the Cardiovascular Health Study

Conrad M. Harris, David C. E. F. Lloyd and Jacqueline Lewis 1153 The prevalence of prophylaxis of gout in England

Manfred S. Green and Gil Harari 1159 A prospective study of the effects of changes in smoking habits on blood count, serum lipids and lipoproteins, body weight and blood pressure in occupationally active men. The Israeli CORDIS study

Ikuko Kato, Mercedes Santamaria, Patricia Alonso De Ruiz, Nubia Aristizabal, F. Xavier Bosch, Silvia De Sanjosé and **Nubia Muñoz** 1167 Inter-observer variation in cytological and histological diagnoses of cervical neoplasia and its epidemiologic implication

Jari Laurikka, Esa Läärä, Tero Sisto, Matti Tarkka, Ossi Auvinen and **Matti Hakama** 1175 Misclassification in a questionnaire survey of varicose veins

Second Thoughts

Richard V. Lee 1179 Fragile environment: cities and crude oil

Letters to the Editors

Fidias E. Leon-S 1183 Bacteria no! Fungus yes!

Sara J. Brook and **Iztzah Brook** 1184 Response

PHARMACOEPIDEMIOLOGY REPORT

Poul Lenler-Petersen, Dorthe Hansen, Morten Andersen, Henrik Toft Sørensen and **Hedda Bille** 1185 Drug-related fatal anaphylactic shock in Denmark 1968–1990. A study based on notifications to the Committee on Adverse Drug Reactions

Errata i

Number 10

Original Articles

Ming Wei, Caroline A. Macera, Carlton A. Hornung and **Steven N. Blair** 1189 The impact of changes in coffee consumption on serum cholesterol

Elio DiSegni, Uri Goldbourt, Henrietta Reicher-Reiss, Elieser Kaplinsky, Monty Zion, Valentina Boyko, Solomon Behar and **The SPRINT Study Group** 1197 The predictive value of admission heart rate on mortality in patients with acute myocardial infarction

A. M. Stiggelbout, G. M. Kiebert, J. Kievit, J. W. H. Leer, J. D. F. Habbema and **J. C. J. M. de Haes** 1207 The "utility" of the time trade-off method in cancer patients: feasibility and proportional trade-off

Gordon H. Guyatt, Alba Mitchell, D. William Molloy, Rosalie Capretta, John Horsman and **Lauren Griffith** 1215 Measuring patient and relative satisfaction with level or aggressiveness of care and involvement in care decisions in the context of life threateing illness

Robert C. Klesges, Margaret Debon and **JoAnne White Ray** 1225 Are self-reports of smoking rate biased? Evidence from the Second National Health and Nutrition Examination Survey

Anna Bennetts, Les Irwig, Brian Oldenburg, Judy M. Simpson, Philip Mock, Allison Boyes, Kym Adams, Edith Weisberg and **Julia Shelly** 1235 PEAPS-Q: a questionnaire to measure the psychosocial effects of having an abnormal Pap smear

Paulo A. M. Camargos, Marcelo S. Almeida, Isabel Cardoso, Geraldo L. Filho, Deodoro M. Filho, José I. Martins, Klever W. B. Batista, Roberto C. O. Silva and **Carlos M. F. Antunes** 1245 Latex particle agglutination test in the diagnosis of *Haemophilus influenzae* type b, *Streptococcus pneumoniae* and *Neisseria meningitidis* A and C meningitis in infants and children

Jennifer A. Emerson, Melbourne F. Hovell, Susan B. Meltzer, Joy M. Zakarian, C. Richard Hofstetter, Dennis R. Wahlgren, Brian P. Leaderer and **Eli O. Meltzer** 1251 The accuracy of environmental tobacco smoke exposure measures among asthmatic children

Knud Juel 1261 Reduced fertility after the crash of a U.S. bomber carrying nuclear weapons? A register-based study on male fertility

Elizabeth H. Corder and C. Edward Buckley III — 1269 — Aspirin, salicylate, sulfite and tartrazine induced bronchoconstriction. Safe doses and case definition in epidemiological studies

A. Senthilselvan and Brian F. Habbick — 1277 — Increased asthma hospitalizations among Registered Indian children and adults in Saskatchewan, 1970–1989

Second Thoughts

Richard V. Lee — 1285 — An autumn reverie: leaves, trees, books and libraries

Number 11

Original Articles

Richard F. Gillum — 1289 — Epidemiology of aortic aneurysm in the United States

G. I. J. M. Kempen, A. M. Myers, and L. E. Powell — 1299 — Hierarchical structure in ADL and IADL: Analytical assumptions and applications for clinicians and researchers

Werner O. Richter, Andreas C. Sönnichsen, and Peter Schwandt — 1307 — Results and efficacy of public screening for hypercholesterolemia: The Bavarian cholesterol screening project

R. T. Ross, Lindsay E. Nicolle, and Mary Cheang — 1319 — Varicella zoster virus and multiple sclerosis in a Hutterite population

Maurice Schweitzer and David A. Asch — 1325 — Timing payments to subjects of mail surveys: Cost-effectiveness and bias

P. J. Nelemans, F. H. J. Rampen, D. J. Ruiter, and A. L. M. Verbeek — 1331 — An addition to the controversy on sunlight exposure and melanoma risk: A Meta-analytical approach

Maurice Giroud, Martine Lemesle, Jean-Bernard Gouyon, Jean-Louis Nivelon, Chantal Milan, and Raymond Dumas — 1343 — Cerebrovascular disease in children under 16 years of age in the city of Dijon, France: A study of incidence and clinical features from 1985 to 1993

Yasuyuki Fujita, Yosikazu Nakamura, Jun Hiraoka, Katsuyoshi Kobayashi, Kiyomi Sakata, Masaki Nagai, and Hiroshi Yanagawa — 1349 — Physical-strength tests and mortality among visitors to health-promotion centers in Japan

Pamela J. Schreiner, Janne Pitkäniemi, Juha Pekkanen, and Veikko V Salomaa — 1361 — Reliability of near-infrared interactance body fat assessment relative to standard anthropometric techniques

Gerold Stucki, Matthew H. Liang, Anne H. Fossel, and Jeffrey N. Katz — 1369 — Relative responsiveness of condition-specific and generic health status measures in degenerative lumbar spinal stenosis

Paul R. Fortin, Robert A. Lew, Matthew H. Liang, Elizabeth A. Wright, Laurel A. Beckett, Thomas C. Chalmers, and Richard I. Sperling — 1379 — Validation of a meta-analysis: The effects of fish oil in rheumatoid arthritis

PHARMACOEPIDEMIOLOGY REPORTS

Molly L. Osborne, William M. Vollmer, Richard E. Johnson, and A. Sonia Buist — 1393 — Use of an automated prescription database to identify individuals with asthma

R. Raschetti, M. Maggini, P. Popoli, B Caffari, R. Da Cas, F. Menniti-Ippolito, S. Spila-Alegiani, and G. Traversa — 1399 — Gangliosides and Guillain-Barré syndrome

Allan B. Steingart and Michelle Cotterchio — 1407 — Do antidepressants cause, promote, or inhibit cancers?

Number 12

Variance and Dissent

Stephen R. Daniels, James I. Hudson, and Ralph I. Horwitz — 1413 — Presentation: Epidemiology of the potential association between L-tryptophan ingestion and eosinophilia-myalgia syndrome

John M. Esdaile 1429 Dissent: Commentary on article by S. R. Daniels *et al.*

Rudi G. J. Westendorp 1433 Dissent: Can case control studies be sufficiently controlled?

Stephen R. Daniels, James I. Hudson, and **Ralph I. Horwitz** 1437 Response: Continuing scientific concerns about the validity of the L-tryptophan eosinophilia-myalgia syndrome association

Original Articles

The West of Scotland Coronary Prevention Study Group 1441 Computerised record linkage: Compared with traditional patient follow-up methods in clinical trials and illustrated in a prospective epidemiological study

Gerben ter Riet, Alphons G. H. Kessels, and **Paul G. Knipschild** 1453 Randomized clinical trial of ascorbic acid in the treatment of pressure ulcers

Paula Diehr, Donald C. Martin, Thomas Koepsell, Allen Cheadle, Bruce M. Psaty, and **Edward H. Wagner** 1461 Optimal survey design for community-intervention evaluations: Cohort or cross-sectional?

Allan Toomingas, Gunnar Németh, Lars Alfredsson, and the **Stockholm MUSIC I Study Group** 1473 Self-administered examination versus conventional medical examination of the musculoskeletal system in the neck, shoulders and upper limbs

Daniel J. Galanis, Jeffrey Sobal, Stephen T. McGarvey, David L. Pelletier, and **Linda Bausserman** 1485 Ten-year changes in the obesity, abdominal adiposity and serum lipoprotein cholesterol measures of Western Samoan men

John Concato, Peter Peduzzi, Theodore R. Holford, and **Alvan R. Feinstein** 1495 Importance of events per independent variable in proportional hazards analysis. I. Background, goals and general strategy

Peter Peduzzi, John Concato, Alvan R. Feinstein, and **Theodore R. Holford** 1503 Importance of events per independent variable in proportional hazards regression analysis. II. Accuracy and precision of regression estimates

PHARMACOEPIDEMIOLOGY REPORT

Special Communication

World Health Organization Collaborative Study of Cardiovascular Disease and Steroid Hormone Contraception 1513 A multinational case-control study of cardiovascular disease and steroid hormone contraceptives. Description and validation of methods

INDEXES

1551 Author Index
i List of Contents